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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/915,692 | 07/25/2001 | Yoshihito Nakagawa | 16869S-029800US | 7615 |

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EXAMINER

DUONG, OANH L

ART UNIT PAPER NUMBER

2155

DATE MAILED: 06/10/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application

09/915,692

Applicant(s)

NAKAGAWA ET AL.

Examiner

Oanh L. Duong

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final. ↗
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>2 and 3</u> . | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what "World Wide Name" means since it is not a standard phrase and is not defined in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Bachmat et al. (Bachmat) (US 6,711,649 B1).

Regarding claim 1, Bachmat teaches a system comprising:

accounting data generating means for generating accounting data comprising a number of times of access (col. 8 lines 32-36 and col. 23 lines 38-41) and a data transfer quantity for each of one or more accounting subject control units (col. 15 lines 53-55); and

transfer means for informing said accounting server of said accounting data generated by said accounting data generating means (col. 6 lines 45-56).

Regarding claim 2, Bachmat each of said accounting subject control units includes at least one of a host computer, a World Wide Name, a channel port, a storage device and an in-storage-device area (col. 5 lines 3-17).

Regarding claim 3, Bachmat teaches said storage control device is associated with a service processor and includes transfer means for informing said service processor of said accounting data (col. 5 lines 52-67 and col. 6 lines 45-56).

Regarding claim 4, Bachmat teaches: means for setting an upper limit value of said accounting data in said accounting subject control units (col. 9 lines 7-12), said means being made to operate from at least one of said accounting server and said service processor (col. 5 lines 57-60).

Regarding claim 5, Bachmat teaches said upper limit value is determined on the basis of a predetermined period which includes, as a unit, at least one of a day, a week, a month, and a year (col. 13 lines 66-67).

Regarding claim 10, Bachmat teaches connection between said storage control device and said host computers is made through serial channels of optical fibers so as to constitute a LAN (col. 5 lines 46-51).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2155

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 6, 8 and 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bachmat in view of Eggleston et al. (Eggleston) (WO 97/22936).

Regarding claim 6, Bachmat does not specifically teach means does not accept request larger than upper limit value.

Eggleston, in the same field of endeavor, teaches means which operates so that when a data input/output request issued from one of said host computer is larger than said upper limit value, said means does not accept said data input/output request larger than said upper limit value (page 6 lines 13-24). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the means of Eggleston in the process of generating accounting data in Bachmat because it was conventionally employed in the art to allow more accurate billing control to be achieved.

Regarding claim 8, Bachmat/Eggleston teaches accounting for said accounting subject control unit in which said upper limit value has been set is made based on fixed accounting (Eggleston, page 24 line 12-page 25 line12).

Regarding claim 12, Bachmat teaches a method comprising steps of:

(a) designating accounting subject control units (col. 3 lines 27-33);

(b) for at least some of said accounting subject control units, determining an upper limit value for a number of times of access (col. 9 lines 7-10) wherein access occurs for each of said accounting subject control units (col. 8 lines 32-36);

(c) generating accounting data of said accounting subject control units in accordance with said upper limit value (col. 23 lines 38-41); and

(d) recording said accounting data (col. 6 lines 45-56).

Bachmat does not explicitly teach upper limit value for a data transfer quantity. Eggleston, in the same field of endeavor, teaches an upper limit value for a data transfer quantity (page 25 lines 6-14). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the upper limit value of Eggleston in the process of generating accounting data in Bachmat because it was conventionally employed in the art to allow more accurate billing control to be achieved.

Regarding claim 13, Bachmat-Eggleston teaches accounting subject control units include host computers, a World Wide Name, a channel port, a storage device and an in-storage-device area (col. 5 lines 3-17 and lines 46-51).

Regarding claim 14, Bachmat teaches accounting server is associated with a service processor for controlling and supervising said storage control device (col. 5 lines 52-67).

Regarding claim 15, Bachmat-Eggleston teaches upper limit value for said number of times of access (Bachmat, col. 9 lines 7-10) and upper limit value for said data transfer quantities (Eggleston, page 25 lines 6-14).

Regarding claim 16, Bachmat-Eggleston teaches. generation of said accounting data is made in accordance with said upper limit values (Eggleston, page 24 lines 12-14).

Regarding claim 17, Bachmat-Eggleston teaches makes an accounting data sending request to said storage control device in every predetermined period, and receives said accounting data in said every predetermined period to record said accounting data in a database (Bachmat, col. 6 lines 54-56).

4. Claims 7, 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bachmat in view of Motohashi et al. (Motohashi) (US 5,946,670).

Regarding claim 7, Bachmat does not teach meter accounting is made based on at least one of said number of times of access and said data transfer quantity.

Motohashi, in the same field of endeavor, teaches meter accounting is made based on at least one of said number of times of access and said data transfer quantity (col. 1 lines 33-35 and col. 2 lines 40-43). It would have been obvious to have utilized the meter accounting of Motohashi in the process of generating accounting data in Bachmat because such meter accounting would enable charge information to be generated based on the quantity of information transferred, and thereby allowing the charge to be easily managed (Motohashi, col. 11 lines 41-42).

Regarding claim 9, Bachmat-Motohashi teaches at least one of said accounting server and said service processor has means for fetching said accounting data of said storage control device every predetermined period (Bachmat, col. 7 lines 12-16), and means for calculating rates on the basis of said accounting data fetched by said fetching means and for performing rate management (Motohashi, col. 5 lines 46-51).


Regarding claim 11, Bachmat-Motohashi teaches said storage control device has I/O control portions for setting at least said upper limit values (Bachmat, col. 9 lines 7-12) and generating accounting data in accordance with said upper limit values, and a shared memory for storing said accounting data (Motohashi, page 30 line 4-27).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Oanh L. Duong whose telephone number is (703) 305-0295. The examiner can normally be reached on Monday- Friday, 8:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on (703) 308-6662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

O.D
June 7, 2004


HOSAIN ALAM
SUPERVISORY PATENT EXAMINER